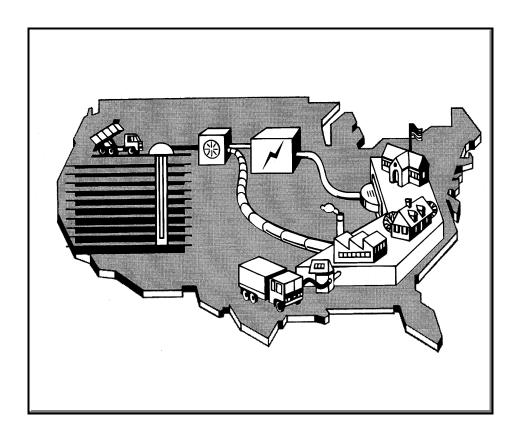


Landfill Gas-to-Energy Project Opportunities

Landfill Profiles for the State of New Jersey





EPA Landfill Methane Outreach Program



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities,

municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-toenergy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

Data Sources

- EPA-ORD Landfill Gas Utilization-Survey (Thorneloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- · Project developers, landfill owners, and operators
- · State and local records
- · Survey of Landfill Gas Generation Potential (EPRI, 1992)
- U.S. Landfill Directory (SWANA, 1992)

Landfill Classification

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project, ¹ Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

Landfill Categorizes

Current Project:

 Landfill with operational LFGTE project or landfill with LFGTE project under construction.

Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-inplace.²

Shutdown:

· Landfill with shutdown LFGTE project.

Other

 Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

Unknown WIP:

 Landfill with insufficient data to determine the waste-inplace

State Summary

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

² By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



¹ Current projects illustrate the wide range of successful project development options.

Exhibit 1: New Jersey MSW Landfill Summary

Category	No. of	Est. Capac	ity Potential	Est. CH4	Methane R		CO2 Equival	
	Landfills	Electricity (MW)	Gas Capacity (mmBtu/hr)	Generation (mmscf/d)	(tons/yr)		Reduc (tons	
					Potential Current		Potential	Current
Current	14	135	1,346	43	248,932	99,829	5,227,576	2,096,407
Candidate	5	12	118	4	21,752	0	456,800	0
Other	6	10	104	3	19,172	0	402,604	0
Unknown WIP	2							
Total	27	157	1,567	50	289,856	99,829	6,086,980	2,096,407

Exhibit 2: Potential New Jersey Emissions Avoided by Fossil Fuel Displacement

Category		Electricity Generation Project					Direct Use Project					
	C	CO2 (tons/yr)		SO2 (tons/yr)		CO2 (tons/yr)			SO2 (tons/yr)			
	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas
Current	1,062,366	871,942	586,305	6,715	5,613	0	749,625	615,258	413,708	6,821	3,585	4
Candidate	92,345	75,793	50,964	584	488	0	65,504	53,763	36,151	596	313	0
Other	82,085	67,371	45,302	519	434	0	57,733	47,384	31,862	525	276	0
Unknown WIP												
Total	1,236,796	1,015,106	682,571	7,818	6,534	0	872,862	716,406	481,721	7,942	4,175	4

Exhibit 3: Index of Landfills in New Jersey

Category	Landfill Name	WIP			Landfill	LFG Collected		Status of LFGTE
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	Operating in 1998		Utilization Project	Project
Current	Balefill			✓	✓	✓	✓	Operational
Current	Cape May County SLF	✓					✓	Operational
Current	Dover Township LF					✓	✓	Operational
Current	Edgeboro Disposal MCUA II			✓	>		✓	Operational
Current	Hamm's LF	✓				✓	✓	Operational
Current	HMDC 1-A LF			✓		✓	✓	Operational
Current	HMDC 1-C LF			✓		✓	✓	Operational
Current	ILR LF			✓				Construction
Current	Kearny 1-D LF			✓		✓	✓	Operational
Current	Kingsland LF			✓		✓		Construction
Current	Kinsley LF			✓		✓	✓	Operational
Current	L & D LF		✓			✓	✓	Operational
Current	Monmouth County LF			✓		✓	✓	Operational
Current	Ocean County LF			✓	>	✓	✓	Operational
Candidate	Burlington County SLF		✓					Planned
Candidate	Cumberland County SLF	✓			>			Unknown
Candidate	Gloucester County SLF	✓			>			Unknown
Candidate	Sussex County LF 1-E	✓			>			Unknown
Candidate	Towanda Electric Facility							Planned
Other	Edison Township SLF		✓					Unknown
Other	Galloway Township LF	✓			>			Unknown
Other	Linden City SLF	✓			>			Unknown
Other	Pennsauken LF	✓						Unknown
Other	Pineland Park LF	✓						Unknown
Other	Salem County SLF	✓			>			Unknown
Unknown WIP	Parklands Reclamation Project							Unknown
Unknown WIP	Warren County LF							Unknown

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			Balefill			Landfill Cate	egory: C	urrent
		A. Gl	ENERAL LANDFILL IN	FORMATI	ON	·		
Landfill Owner:	Hacken	sack Meadowlar	ds Development Com Ar	nual Accept	ance Rate (to	ons):	404	1,000
Landfill Owner Type:	Public		Ye	ar Annual A	cceptance Ra	ate Reported:		1994
Alternative Landfill N	ame: Egan's	LF	De	sign Capaci	y (tons):		15,000	0,000
City:	North A	Arlington	Ac	res Currentl	y Landfilled ((acres):		195
County:	Bergen		Av	erage Depth	(feet):			90
State:	NJ		19	993 Waste-in	-Place (tons)	:	28,206	5,601
Year Open:	1950		19	98 Waste-in-	Place (tons):		30,226	5,601
Year Closed:	2002							
		F	3. LANDFILL GAS COL	LECTION				
Estimated Methane Ge	eneration (mmsc	f/d):		5.25				
LFG Collection System	n Status:		Oper	rational				
Current LFG Collected	d (mmscf/d):							
Collection and Treatm	ent System Requ	uired Under NSP	S/EG:	No				
		(C. LANDFILL GAS UTI	LIZATION				
Current Utilization:								
Utilization Syster	n Status:	Operational						
Utilization Syster		Medium Btu						
Utilization Syster		1997						
Electric Utility Pr		Public Servi	ce Electric & Gas Compan	y (PS				
Natural Gas Prov			•	•				
Energy Purchaser	* *	Public Servi	ce Electric & Gas Compan	Ŋ				
	,		-					
Capacity:		Electricit	y Generation Project (MV	V) C	R .	Direct Use Project (mm	Btu/hr)	
Estimated Potents	ial Capacity:			16			1	64
Current Capacity:	:							
Planned Capacity	:							
Utilities in County:		Park Ridge I	Dept of Public Utilities; Pu	blic Service	Electric & G	as Co.; Rockland Electr	ic Company	7
		D. ENVIR	ONMENTAL BENEFIT	S OF UTIL	IZATION			
			Pote	ntial		Curre	nt	
Methane Reduction (to	ons/yr):				30,353			0
CO2 Equivalent of CH	- ·	ns/vr):		6	37,421			0
		5 /			,			
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Gener	ation Projec	t	Direct Use I	Project	
			CO2 (tons/yr)	SO2 (ton	s/yr)	CO2 (tons/yr)	SO2 (tor	ıs/yr)
		Coal:	129,441		818	91,405		832
		Fuel Oil:	106,240		684	75,021		437
	λ	atural Gas:	71,437		0	50,445		0
	14	aiurai Gas.		MATION		30,443		
		Landfill (E. CONTACT INFOR	WATION		Landfill Operator		
Contact Name:	Chuistanh an Da		7 WHEI	Т	Fl	Landini Operator		
	Christopher Do			Terry				
Mailing Address:	1 Dekorte Park	Plaza			C Baler			
				100 B	aler Boulevar	rd		
Phone Number:	201-460-1700			201-40	50-1700			
Fax Number:								



			Burlington Cou	ınty SLF		Landfill Cates	ory: Candidate
		A. G	ENERAL LANDFILL	•	ION	Zanajin Cares	. j. Canaratte
Landfill Owner:	Burling		rd of Chosen Freehold			ons):	366,473
Landfill Owner Type:	Public	,		Year Annual A			1993
Alternative Landfill Na				Design Capaci	-		3,100,000
City:	Mansfie	eld		Acres Currentl	-	(acres):	40
County:	Burling			Average Depth	-	(deres).	42
State:	NJ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1998 Waste-in			3,500,000
Year Open:	1987			1998 Waste-in-			3,500,000
Year Closed:	1998			1990 wasie-in	-1 iace (ions).	•	3,300,000
Teur Closed.	1770	I	B. LANDFILL GAS C	OLLECTION			
Estimated Methane Ge	neration (mmsc	f/d):		1.31			
LFG Collection System	_	γα).		1.31			
Current LFG Collected							
Collection and Treatme	` ,	uired Under NSF	PS/FG:	No			
Concetion and Treatme	ent System Requ		C. LANDFILL GAS U				
Current Utilization:			0.10.01122 0.10 0	,			
	- 54-4	DI J					
Utilization System		Planned					
Utilization System		Cogeneration	1				
Utilization System		1999					
Electric Utility Pr							
Natural Gas Provi							
Energy Purchaser	(s):						
Capacity:		Electrici	ty Generation Project (l	MW) C)R	Direct Use Project (mmE	stu/hr)
Estimated Potenti	al Capacity:			4			41
Current Capacity:							
Planned Capacity	:			1.6			
Utilities in County:		Atlantic City	Electric Company; Jer	rsey Central Pov	wer & Light (Co.; Pemberton Electric I	Dept; Public S
		D. ENVIR	RONMENTAL BENE	FITS OF UTII	LIZATION		
			P	otential		Curren	t
Methane Reduction (to	ns/vr)·		1	otennai	7,592	Curren	0
CO2 Equivalent of CH		ns/vr):		1	159,440		0
CO2 Equivalent of CII	4 Reduction (tor	1137 y 1).			137,440		
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Ge	neration Projec	rt	Direct Use Pr	oject
			CO2 (tons/yr)	SO2 (tor	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	32,360		205	22,864	208
		Fuel Oil:	26,560		171	18,765	109
	N	atural Gas:	17,859		0	12,618	0
			E. CONTACT INFO	ORMATION			
		Landfill (711111111		Landfill Operator	
Contact Name:	Robert Simpkii	ns				•	
Mailing Alla	_			40 B	manas - D 1		
Mailing Address:	21939 Columb P.O. Box 429	us Koad		49 Ka	ncocas Road		
Phone Number:	609-499-1001			609-2	65-5020		
Fax Number:				333 2			
1							

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: NJ Page:

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			Cape May Coun	ty SLF		Landfill Categ	ory: Current
		A. G	ENERAL LANDFILL I	NFORMAT	ION		
Landfill Owner:	Cape N	Iay County	A	annual Accep	tance Rate ((tons):	117,518
Landfill Owner Type:	Public		Y	ear Annual A	Acceptance !	Rate Reported:	1993
Alternative Landfill Na	ame:		Γ	Design Capaci	ty (tons):		
City:	Woodb	ine		cres Currentl	-	d (acres):	52
County:	Cape M	I ay		verage Deptl			
State:	NJ			Vaste-in-Place			1,790,672
Year Open:	1983			998 Waste-in		s):	1,790,671
Year Closed:	1996				(1111	-,-	,,
]	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Ge	neration (mmsc	rf/d):		0.88			
LFG Collection System		<i>y.</i> /-					
Current LFG Collected				1.1			
Collection and Treatme		uired Under NSI	PS/EG:	No			
	one system req.		C. LANDFILL GAS UT		I		
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System		Medium Btu	•				
Utilization System		1998	•				
Electric Utility Pr		1770					
Natural Gas Provi							
Energy Purchaser	` ,	Woodbine S	chool				
Energy I drendser	(5).	woodonic 5	Chool				
Capacity: Electricity Generation Project (MW) OR Direct Us					Direct Use Project (mmB	tu/hr)	
Estimated Potenti	al Capacity:			3			27
Current Capacity:							23
Planned Capacity							
Utilities in County:		Atlantic City	V Electric Company; Jerse	ey Central Po	⊥ wer & Ligh	t Co.	
·		D. ENVII	RONMENTAL BENEF	TS OF UTII	LIZATION		
				ential		Curren	<u> </u>
 Methane Reduction (to	nchr).		101	emu	5,065	Curren	4,240
CO2 Equivalent of CH	• ,	ns/ur):			106,359		89,036
CO2 Equivalent of CII	+ Reduction (to	ns/ yr).			100,337		67,030
Emissions Avoided by	Fossil Fuel Dis _l	placement:	Electricity Gene	ration Projec	rt .	Direct Use Pr	roject
			CO2 (tons/yr)	SO2 (tot	ıs/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	21,311		135	15,252	139
		Fuel Oil:	17,491		113	12,518	73
			·				
	N	latural Gas:	11,761		0	8,417	0
			E. CONTACT INFO	RMATION			
		Landfill	Owner			Landfill Operator	
Contact Name:	Frederick Gald	lo, Clerk\Admin	istrator				
Mailing Address:	21939 Columb	ous Road		PO R	ox 610		
Training Flucious.	PO Box 429	1000		10 b	0.1.010		
Phone Number:				(00)	CE 0005		
i none muniber:	609-265-5020			609-4	65-9026		
Fax Number:							
* Itallicized indicates v	aluna nationatad	by EDA	Dag	ember 5, 199	Q	State: NJ I	Page: 3

^{*} Itallicized indicates values estimated by EPA.

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			Cumberland Cour	nty SLF		Landfill Category.	Candidate
		A. G	ENERAL LANDFILL I	NFORMAT	TION		
Landfill Owner:	Cumbe	rland County	A	Annual Accep	otance Rate (t	ons):	137,648
Landfill Owner Type:	Public		Y	ear Annual A	Acceptance R	Rate Reported:	1993
Alternative Landfill Na	me:		Γ	Design Capac	ity (tons):		4,413,317
City:	Deerfie	eld	A	cres Current	ly Landfilled	(acres):	36
County:	Cumbe	rland	A	verage Dept	h (feet):		
State:	NJ		V	Vaste-in-Plac	e (tons):		1,651,776
Year Open:	1985		1	998 Waste-in	n-Place (tons)):	1,927,072
Year Closed:	2019						
		I	B. LANDFILL GAS CO	LLECTION	I		
Estimated Methane Ger	neration (mmsc	f/d):		0.91			
LFG Collection System	Status:						
Current LFG Collected	(mmscf/d):						
Collection and Treatme	ent System Requ	uired Under NSP	PS/EG:	No			
			C. LANDFILL GAS UT	TILIZATION	V		
Current Utilization:							
Utilization System	Status:	Unknown					
Utilization System	Type:	Unknown					
Utilization System	Start Year:						
Electric Utility Pro	ovider(s):						
Natural Gas Provi	der(s):						
Energy Purchaser((s):						
Capacity:		Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mmBtu/h	r)
	al Canacity		-,(3			29
Estimated Potential Current Capacity:	и Сарасну:			3			29
Planned Capacity:							
Trainied Capacity.							
Utilities in County:		Atlantic City	Electric Company; Jerse	ey Central Po	wer & Light	Co.; Vineland Elec Util	
		D. ENVIR	RONMENTAL BENEFI	TS OF UTI	LIZATION		
			Pot	ential		Current	
Methane Reduction (to	ns/yr):				5,266		0
CO2 Equivalent of CH	4 Reduction (to	ns/yr):			110,594		0
Emissions Avoided by I	Famil Eval Diag		Electricity Gene	nation Duois	o.t	Direct Use Projec	.4
Emissions Avoided by I	ossii ruei Disp	насетені.	CO2 (tons/yr)	SO2 (to		ū	n D2 (tons/yr)
				302 (10)	ris/yr)		
		Coal:	22,100		140	15,859	144
		Fuel Oil:	18,139		117	13,016	76
	N	latural Gas:	12,197		0	8,752	0
			E. CONTACT INFO	RMATION			
		Landfill (Owner			Landfill Operator	
Contact Name:	Dennis DeMat	te, Controller		Denn	is DeMatte		
	2 West Vine St			2 We	st Vine Stree	.t	
Training Fractions.	_ ,, est + me s			2,10	or the bucc	•	
Phone Number:	609-825-3700			609-8	325-3700		
	507 525-5100			007-0	,25 5100		
Fax Number:							
* Itallicized indicates vo	alues estimated	by EPA.	Dec	cember 5, 199	98	State: NJ Page	: 4

^{*} Itallicized indicates values estimated by EPA.

			Dover Township LI	<u></u>	Landfill Category:	Current
		A. G	ENERAL LANDFILL INFO			
Landfill Owner: Landfill Owner Type: Alternative Landfill Name: City: County: State: Year Open: Year Closed:	Public	Township	Year Desig Acres Avera Waste	al Acceptance Rate Annual Acceptanc in Capacity (tons): Currently Landfil age Depth (feet): e-in-Place (tons): Waste-in-Place (to	e Rate Reported: led (acres):	94
		I	B. LANDFILL GAS COLLE	ECTION		
Estimated Methane Genera LFG Collection System Sta Current LFG Collected (mr Collection and Treatment S	ntus: mscf/d):	iired Under NSF		No		
			C. LANDFILL GAS UTILIZ	ZATION		
Current Utilization: Utilization System Sta Utilization System Ty Utilization System Sta Electric Utility Provide Natural Gas Provider(s Energy Purchaser(s):	pe: art Year: er(s):	Operational Unknown 1983				
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)	
Estimated Potential Co Current Capacity: Planned Capacity:	apacity:		<u>j</u>		.	
Utilities in County:						
		D FNVII	RONMENTAL BENEFITS (OF UTILIZATIO	N .	
		D. EIT VIE				
Methane Reduction (tons/yı CO2 Equivalent of CH4 Re		ıs/yr):	Potentic	ıı	Current	
Emissions Avoided by Foss	il Fuel Disp	lacement: Coal:	Electricity Generation CO2 (tons/yr)	on Project SO2 (tons/yr)	Direct Use Project CO2 (tons/yr) SO2	(tons/yr)
	No	Fuel Oil: atural Gas:				
			E. CONTACT INFORMA	TION		
Т		Landfill	Owner	I	Landfill Operator	
Contact Name: Mailing Address:						
Phone Number: Fax Number:						



			Edgeboro Disposal M	CUAII		I andfill	Category:	Current
		A. G	ENERAL LANDFILL IN		ON			
Landfill Owner:					ance Rate (t	one).		773,203
Landfill Owner Type:	Public			-		tate Reported:		1992
Alternative Landfill Na		oro I.F		ign Capacit	-	ate Reported.		1772
City:	_	runswick		-	y Landfilled	(acres):		315
County:	Middle			erage Depth		(deres).		90
State:	NJ	.5011		ste-in-Place			4	5,437,841
Year Open:	1970				Place (tons)):		8,803,607
Year Closed:	2012				()			-,,
		l	B. LANDFILL GAS COL	LECTION				
Estimated Methane Ge	neration (mmsc	rf/d):		12.90				
LFG Collection System	n Status:		P	anned				
Current LFG Collected	l (mmscf/d):			7.0				
Collection and Treatme	ent System Requ	uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS UTII	IZATION				
Current Utilization:								
Utilization System	n Status:	Operational						
Utilization Systen		Steam Turbi	ne					
Utilization Systen		1998						
Electric Utility Pr	ovider(s):							
Natural Gas Provi	der(s):							
Energy Purchaser	(s):	Public Servi	ce Electric & Gas Co.					
Capacity:		Electrici	ty Generation Project (MW) O	R	Direct Use Project	(mmBtu/hr))
Estimated Potenti	al Canacity	Licetiei	g Generation Project (1974)	40		Brieet e se i roject	(IIIII)	403
Current Capacity:				10.0				403 146
Planned Capacity				10.0				140
Trainied Capacity	•							
Utilities in County:		Jersey Centr	al Power & Light Co.; Publ	ic Service E	Electric & G	as Co.; South River	Bd Public V	Wks
		D. ENVII	RONMENTAL BENEFIT	S OF UTIL	IZATION			
			Poten	tial		(Current	
Methane Reduction (to	ns/yr):				74,587			26,981
CO2 Equivalent of CH	4 Reduction (to	ns/yr):		1,5	66,327			566,597
E	E '1E 1D'		El	D .		D		
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity General	_			Use Project	244
		G 1	CO2 (tons/yr)	SO2 (ton		CO2 (tons/yr)		2 (tons/yr)
		Coal:	318,078		,011	224,609		2,044
		Fuel Oil:	261,064	1	,680	184,349)	1,074
	N	latural Gas:	175,543		0	123,959)	1
			E. CONTACT INFORM	IATION				
		Landfill	Owner			Landfill Operato	r	
Contact Name:	Margaret Bren	nan, Treasurer/C	ontroller					
Mailing Address:	PO Box B-1			PO Bo	x 1			
-								
Phone Number:	908-721-3800			908-73	21-3800			
	700-121-3000			700-72	1-2000			
Fax Number:								



Gloucester County SLF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: Gloucester County Annual Acceptance Rate (tons): 89,881 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1992 Alternative Landfill Name: Design Capacity (tons): City: Woodbury Acres Currently Landfilled (acres): 20 County: Gloucester Average Depth (feet): State: NJ Waste-in-Place (tons): 1,489,025 Year Open: 1985 1998 Waste-in-Place (tons): 1,737,197 Year Closed: 2010 **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 0.86 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Unknown Utilization System Type: Unknown Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 3 27 Current Capacity: Planned Capacity: Atlantic City Electric Company; Jersey Central Power & Light Co.; Public Service Electric & Gas Co Utilities in County: D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Current Methane Reduction (tons/yr): 4,986 0 CO2 Equivalent of CH4 Reduction (tons/yr): 104,698 0 Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project CO2 (tons/yr) SO2 (tons/yr) CO2 (tons/yr) SO2 (tons/yr) Coal: 21,311 135 15,013 137 Fuel Oil: 17,491 113 12,322 72 Natural Gas: 11.761 0 8,286 0 E. CONTACT INFORMATION Landfill Owner Landfill Operator Contact Name: Gary Whalen Gary Whalen Mailing Address: P.O. Box 340 P.O. Box 340 Phone Number: 609-423-3500 609-423-3500 Fax Number:

* Itallicized indicates values estimated by EPA.

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State: NJ

Page:

		HMDC 1-A LF	I.		Landfill Category	y: Current
	A. Gl	ENERAL LANDFILL IN	FORMATIO	ON		
HMDC		Anr	ual Accepta	nce Rate (ton	s):	1,350,000
		Yea	r Annual Ac	ceptance Rate	e Reported:	1983
ame: MSLA	1-A LF	Des	ign Capacity	(tons):		4,000,000
Kearny					cres):	45
-			_			70
NJ						5,998,800
1950						5,998,800
1984				(,		- , ,
	E	3. LANDFILL GAS COLI	LECTION			
neration (mmsc	f/d):		1.14			
_	,	Opera	tional			
		· r				
	iired Under NSP	S/EG:				
a Statue	Operations1					
	•					
• •						
	1989					
` '	D 11: G :					
(s):	Public Service	ce Electric & Gas Co.				
	Electricit	y Generation Project (MW) Ol	R D	irect Use Project (mmBtu/	hr)
al Capacity:			4			36
						13
:						
	Atlantic City	Electric Company; Public	Service Elec	etric & Gas Co).	
	·					
					Current	
nchir).		1 Oten	ши	6 501	Current	2,313
	26/12)·		13	· ·		48,565
4 Reduction (tor	13/ y1).		1,	50,415		46,303
Fossil Fuel Disp	placement:	Electricity Genera	tion Project		Direct Use Proje	ect
		CO2 (tons/yr)	SO2 (tons	/yr)	CO2 (tons/yr) S	SO2 (tons/yr)
					40.040	
	Coal:	28 414		180	19 849	181
	Coal:	28,414		180	19,849	181
	Coal: Fuel Oil:	28,414 23,321		150	19,849 16,291	181 95
N						
N	Fuel Oil:	23,321		150	16,291	95
N	Fuel Oil:	23,321 15,681 E. CONTACT INFORM		0	16,291	95
	Fuel Oil: atural Gas: Landfill (23,321 15,681 E. CONTACT INFORM		0	16,291 10,954	95
Christopher Do	Fuel Oil: atural Gas: Landfill C	23,321 15,681 E. CONTACT INFORM		0	16,291 10,954	95
	Fuel Oil: atural Gas: Landfill C	23,321 15,681 E. CONTACT INFORM		0	16,291 10,954	95
Christopher Do	Fuel Oil: atural Gas: Landfill C	23,321 15,681 E. CONTACT INFORM	IATION	150 0	16,291 10,954	95
Christopher Do	Fuel Oil: atural Gas: Landfill C	23,321 15,681 E. CONTACT INFORM		150 0	16,291 10,954	95
	ame: MSLA Kearny Hudson NJ 1950 1984 eneration (mmscy n Status: d (mmscf/d): ent System Requested System Requested System Requested System Requested System Start Year: en	HMDC ame: MSLA 1-A LF Kearny Hudson NJ 1950 1984 Beneration (mmscf/d): In Status: It (mmscf/d): In Status: Operational In Type: High Btu In Start Year: 1989 In Sta	A. GENERAL LANDFILL INI HMDC Ann Yea ame: MSLA 1-A LF Every Acry Hudson NJ 1950 1990 1984 B. LANDFILL GAS COLI Inneration (mmscf/d): In Status: Opera Id (mmscf/d): In Status: Operational In Type: High Btu In Start Year: 1989 In Start Year: 19	A. GENERAL LANDFILL INFORMATION HMDC Annual Accepta Year Accepta Year Year Year Year Year Year Year Yea	A. GENERAL LANDFILL INFORMATION HMDC Annual Acceptance Rate (ton Year Annual Acceptance Rate (tons): B. Landfilled (a Average Depth (feet): NJ 1990 Waste-in-Place (tons): 1984 B. LANDFILL GAS COLLECTION Interaction (mmscf/d): I.14 Operational It (mmscf/d): O.6 Ent System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION In Status: Operational In Type: High Btu In Start Year: 1989 Ovider(s): Idder(s): Idder(s): Idder(s): Idder(s): Idd Capacity: Atlantic City Electric & Gas Co. Electricity Generation Project (MW) OR D. ENVIRONMENTAL BENEFITS OF UTILIZATION Potential Fossil Fuel Displacement: Electricity Generation Project	A. GENERAL LANDFILL INFORMATION HMDC Annual Acceptance Rate (tons): Year Annual Acceptance Rate (tons): Year Annual Acceptance Rate Reported: Design Capacity (tons): Kearny Acres Currently Landfilled (acres): Hudson Average Depth (feet): NJ 1990 Waste-in-Place (tons): 1984 B. LANDFILL GAS COLLECTION mercation (mmscf/d): 1.14 In Status: Operational Id (mmscf/d): O.6 ent System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION In Status: Operational In Type: High Btu In Start Year: 1989 In Start Year: 1980 In Start Year: 1990 In St

^{*} Itallicized indicates values estimated by EPA. December 5, 1998



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			HMDC 1-C L	F	Lana	dfill Category:	Current
		A. Gl	ENERAL LANDFILL IN	NFORMATION			
Landfill Owner:	HMDC	1,	Aı	nnual Acceptance Rat	e (tons):		1,350,000
Landfill Owner Type:	Public		Ye	ear Annual Acceptance	e Rate Reported:		1987
Alternative Landfill N	ame: HMDC	1-E LF; MSLA	1-C LF De	esign Capacity (tons):		1	15,000,000
City:	Kearny		Ac	eres Currently Landfil	lled (acres):		212
County:	Hudsor	1	Av	verage Depth (feet):			90
State:	NJ		19	990 Waste-in-Place (t	ons):	2	26,994,601
Year Open:	1950		19	98 Waste-in-Place (to	ons):	2	26,994,601
Year Closed:	1987						
		F	3. LANDFILL GAS COI	LECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		3.96			
LFG Collection System	m Status:		Ope	rational			
Current LFG Collected	d (mmscf/d):			4.4			
Collection and Treatm	ent System Requ	uired Under NSP	S/EG:	No			
		(C. LANDFILL GAS UTI	LIZATION			
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System	n Type:	High Btu					
Utilization System		1989					
Electric Utility Pr	rovider(s):						
Natural Gas Prov		Public Service	ce Electric & Gas Co.				
Energy Purchaser	c(s):	Public Service	ce Electric & Gas Co.				
							,
Capacity:		Electricit	y Generation Project (MV	V) OR	Direct Use Proj	ect (mmBtu/hr	:)
Estimated Potent				12			124
Current Capacity							92
Planned Capacity	:						
Utilities in County:		Atlantic City	Electric Company; Public	c Service Electric & (Gas Co.		
		D. ENVIR	ONMENTAL BENEFIT	TS OF UTILIZATION	ON		
			Pote	ntial		Current	
Methane Reduction (to	ons/yr):			22,916			16,959
CO2 Equivalent of CH	- ·	ns/yr):		481,232			356,147
<i>1</i>	,	,					
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Gener	ation Project	Dire	ect Use Project	•
			CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/	(yr) SO	2 (tons/yr)
		Coal:	97,870	619	69,	,008	628
		Fuel Oil:	80,327	517	56,	,638	330
	N	latural Gas:	54,013	0	38.	,085	0
	-,		E. CONTACT INFOR				
		Landfill (WATION	Landfill Oper	ator	
Contact Name:	Christopher Do		5 WHO!		Editeriii Oper		
	_						
Mailing Address:	1 Dekorte Park	: Plaza					
Phone Number:	201 460 4500			201 460 1700			
I HOHE MUHIUCI.	201-460-1700			201-460-1700			
Fax Number:							
	1						



			Hamm's L	F		Landfill Ca	tegory:	Current
		A. G	ENERAL LANDFILL	NFORMAT	ION			
Landfill Owner:			A	Annual Accept	tance Rate (to	ons):		
Landfill Owner Type:	Private		Y	ear Annual A	Acceptance Ra	ate Reported:		
Alternative Landfill Name	:		Ι	Design Capaci	ty (tons):			
City:	Lafeye	tte	A	Acres Currentl	y Landfilled ((acres):		60
County:	Sussex		A	Average Depth	n (feet):			43
State:	NJ			1994 Waste-ir	n-Place (tons)	:]	1,700,000
Year Open:	1977		1	998 Waste-in	-Place (tons):]	1,700,000
Year Closed:	1985							
		I	B. LANDFILL GAS CO	LLECTION				
Estimated Methane Genera	ation (mmsc	f/d):		0.85				
LFG Collection System St	atus:		Op	erational				
Current LFG Collected (m	mscf/d):			0.7				
Collection and Treatment S	System Req	uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS UT	TILIZATION				
Current Utilization:								
Utilization System St	atus:	Operational						
Utilization System Ty	ype:	Reciprocatin	g Engine					
Utilization System St		1990						
Electric Utility Provid								
Natural Gas Provider	(s):							
Energy Purchaser(s):		Jersey Centr	al Power & Light Co.					
Capacity:		Electrici	ty Generation Project (M	W) (OR :	Direct Use Project (m	mBtu/hr)	
Estimated Potential C	Capacity:			3				27
Current Capacity:	1 ,			1.2				15
Planned Capacity:								
Utilities in County:		Atlantic City	Electric Company; Jerso	ov Control Po	war & Light (Co · Pockland Floatric	Compan	ay: Cues
Othrics in County.			RONMENTAL BENEF			Rockiand Electric	Compan	iy, Suss
		D. LIVII			LIZATION	Com	4	
Mar Darie (c. /	1		Poi	tential	4.021	Cur	rent	2 (00
Methane Reduction (tons/y		()			4,931			2,698
CO2 Equivalent of CH4 Re	eduction (to	ns/yr):			103,543			56,660
Emissions Avoided by Fos.	sil Fuel Dist	olacement:	Electricity Gene	ration Projec	et	Direct Use	Project	
•			CO2 (tons/yr)	SO2 (tor		CO2 (tons/yr)	-	? (tons/yr)
		Coal:	21,311		135	14,848		135
		Fuel Oil:	17,491		113	12,186		71
	-							
	Λ	atural Gas:	11,761		0	8,194		0
		T 10'11	E. CONTACT INFO	RMATION		1 1011 0		
		Landfill	Jwner			Landfill Operator		
Contact Name:								
Mailing Address:								
Phone Number:					5 0 552			
i none number.				203-6	78-7537			
Fax Number:								
* Itallicized indicates value		h., EDA	Day	ember 5 199	0	State: NI	Page	10

^{*} Itallicized indicates values estimated by EPA.

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		ILR LF			Landfill Cat	egory:	Current		
	A. G	ENERAL LANDFILL 1	NFORMAT	ION	Eunajii Cai	egory.	Current		
Landfill Owner: ILR			annual Accep		(tons):				
Landfill Owner Type: Priv					Rate Reported:				
Alternative Landfill Name:	ale		eai Ailliuai 7 Design Capac	-	Rate Reported.				
City: Edi	eon		cres Current	•	nd (acros):		100		
3	ldlesex		verage Dept	-	ed (acres).		80		
State: NJ	iulesex					4	302,213		
Year Open: 196	2	Waste-in-Place (tons): 4,302,213 1998 Waste-in-Place (tons): 4,302,213							
Year Closed: 198		4,502,215							
Teal Closed.		B. LANDFILL GAS CO	LLECTION	J					
Estimated Methane Conception (m.			1.27	•					
Estimated Methane Generation (mi	nscJ/a):		Planned						
LFG Collection System Status: Current LFG Collected (mmscf/d):			3.0						
		OC/EC.	S.0 No						
Collection and Treatment System I		C. LANDFILL GAS UT		V					
		c. LANDFILL GAS CI	ILIZATIOI	.1					
Current Utilization:									
Utilization System Status:	Construction								
Utilization System Type:	Reciprocatin	ig Engine							
Utilization System Start Year:	1998								
Electric Utility Provider(s):									
Natural Gas Provider(s):									
Energy Purchaser(s):	Public Servi	ce Electric & Gas Co.							
Capacity:	Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mr	nBtu/hr)			
Estimated Potential Capacity:			4				40		
Current Capacity:									
Planned Capacity:							63		
Utilities in County:	Jersey Centr	al Power & Light Co.; Pu	ıblic Service	Electric & (Gas Co.; South River Bd	Public Wl	ks		
	D. ENVII	RONMENTAL BENEF	TS OF UTI	LIZATION	N				
		Poi	ential		Curr	ent			
Methane Reduction (tons/yr):				7,333			11,563		
CO2 Equivalent of CH4 Reduction	(tons/yr):			153,989			242,827		
Emissions Avoided by Fossil Fuel I	Displacement:	Electricity Gene	_		Direct Use	-			
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 ((tons/yr)		
	Coal:	31,571		200	22,082		201		
	Fuel Oil:	25,912		167	18,124		106		
	Natural Gas:	17,424		0	12,187		0		
		E. CONTACT INFOI	RMATION						
	Landfill	Owner			Landfill Operator				
Contact Name:									
Mailing Address:									
Maining Addices.									
Phone Number:									
Fax Number:									
* Itallicized indicates values estima	ted by EPA.	Dec	cember 5, 199	98	State: NJ	Page:	11		

^{*} Itallicized indicates values estimated by EPA.

			Kearny 1-D LF			Landfill Co	ategory:	Current
		A. G	ENERAL LANDFILL INFO	ORMATI	ION			
Landfill Owner:	Town	of Kearney	Annu	al Accept	ance Rate (tons):		1,350,000
Landfill Owner Type:	Public		Year	Year Annual Acceptance Rate Repo				1982
Alternative Landfill N	ame: MSLA	1-D LF	Desig	Design Capacity (tons):				7,000,000
City:	Kearny		Acres	Currentl	y Landfilled	d (acres):		97
County:	Hudsor	1	Avera	ige Depth	(feet):			60
State:	NJ		1990	Waste-in	-Place (ton	s):	1	1,997,600
Year Open:	1950		1998 Waste-in-Place (tons):				1	1,997,600
Year Closed:	1982							
]	B. LANDFILL GAS COLLE	ECTION				
Estimated Methane Ge	eneration (mmsc	f/d):		1.76				
LFG Collection System	m Status:		Operation	onal				
Current LFG Collected	d (mmscf/d):			0.8				
Collection and Treatm	ent System Requ	uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS UTILIZ	ZATION	•			
Current Utilization:								
Utilization System	n Status:	Operational						
Utilization System	n Type:	High Btu						
Utilization System	n Start Year:	1989						
Electric Utility Pr	rovider(s):							
Natural Gas Prov	ider(s):	Public Servi	ce Electric and Gas Company					
Energy Purchaser	r(s):	Public Servi	ce Electric & Gas Co.					
Capacity:		Electrici	ty Generation Project (MW)	C)R	Direct Use Project (m	mBtu/hr)
Estimated Potent	ial Capacity:			6				55
Current Capacity								17
Planned Capacity								1,
Utilities in County:			Electric Company; Public Se					
		D. ENVII	RONMENTAL BENEFITS	OF UTII	IZATION			
			Potentio	ıl		Cur	rent	
Methane Reduction (to	ons/yr):				10,179			3,084
CO2 Equivalent of CH	I4 Reduction (to	ns/yr):		2	213,753			64,754
Emissions Avoided by	Fossil Fuel Diss	la com ont:	Electricity Generation	on Projec	4	Direct Use	Duoinat	
Emissions Avoided by	rossii ruei Disp	насетені.	CO2 (tons/yr)	SO2 (ton		CO2 (tons/yr)	-	2 (tons/yr)
			·	302 (ton	1.57 yr)		30.	
		Coal:	43,410		274	30,652		279
		Fuel Oil:	35,629		229	25,158		147
	N	atural Gas:	23,958		0	16,916		0
			E. CONTACT INFORMA	TION				
		Landfill				Landfill Operator		
Contact Name:	Leo Vartan, M	ayor						
Mailing Address:		-						
Mailing Address:	402 Kearney A	rvenue						
Phone Number:	201-955-7400			201-4	60-4678			
	201 /33-1400			201-40	55 70/0			
Fax Number:								

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: NJ Page: 12



			Kingsland	LF		Land	lfill Category:	Current
		A. G	ENERAL LANDFILL		TION			
Landfill Owner:	Hacken	ısack Meadowlaı	nds Development Com	Annual Accep	tance Rate (tons):		1,300,000
Landfill Owner Type:	Public			Year Annual	Acceptance F	Rate Reported:		1985
Alternative Landfill N	ame: Bergen	County LF		Design Capac	ity (tons):			10,000,000
City:	North A	Arlington		Acres Current	ly Landfilled	l (acres):		137
County:	Bergen			Average Dept	h (feet):			70
State:	NJ			1993 Waste-i	n-Place (tons	s):		20,995,801
Year Open:	1965			1998 Waste-ir	n-Place (tons	·):	,	20,995,801
Year Closed:	1988							
		I	B. LANDFILL GAS C	OLLECTION	I			
Estimated Methane Ge	eneration (mmsc	f/d):		5.09				
LFG Collection System	n Status:		0	perational				
Current LFG Collected	d (mmscf/d):			5.3				
Collection and Treatm	ent System Requ	uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS U	TILIZATIO	N			
Current Utilization:								
Utilization Syster	n Status:	Construction	1					
Utilization Syster	n Type:	Reciprocatin	g Engine					
Utilization Syster	n Start Year:	1998						
Electric Utility Pr								
Natural Gas Prov								
Energy Purchaser	r(s):	PSE&G						
Capacity:		Electrici	ty Generation Project (I	MW)	OR T	Direct Use Proj	ect (mmBtu/h	r)
Estimated Potents	ial Capacity:			16				159
Current Capacity:	:							
Planned Capacity	:							110
Utilities in County:		Park Ridge I	Dept of Public Utilities;	Public Service	Electric & (Gas Co.; Rocklar	nd Electric Co	mpany
•			RONMENTAL BENE					
				otential			Current	
Methane Reduction (to	ne/vr):		1	otentiai	29,415		Current	20,428
CO2 Equivalent of CH		nchr).			617,721			428,994
CO2 Equivalent of CII		ns/y/).			017,721			420,994
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Ger	neration Proje	ct	Dire	ect Use Projec	t
			CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/	(yr) SC	02 (tons/yr)
		Coal:	125,495		793	88,	,580	806
		Fuel Oil:	103,001		663	72,	,703	424
	N	latural Gas:	69,259		0	48.	,886	0
			E. CONTACT INFO	RMATION		- ,		-
		Landfill		KWIATION		Landfill Oper	rator	
Contact Name:	Richard Wiere			Riche	ard Weirer			
Mailing Address:	Foot of Mehrho Box 122	of Road		PO B	ox 122			
Phone Number:	201-641-2552			201-8	307-5818			
Fax Number:	201-641-6407							
	201 0-11-0-07							



		Kinsley LF	7		Landfill Catego	ry: Current			
	A. G	ENERAL LANDFILL I	NFORMAT	TION					
Landfill Owner:		A	nnual Accep	otance Rate ((tons):				
Landfill Owner Type: Pri	vate		-		Rate Reported:				
Alternative Landfill Name:			esign Capac	-	•				
City: De	eptford	Acres Currently Landfilled (acres):							
County: Gl	oucester	Average Depth (feet):							
State: NJ		Waste-in-Place (tons): 7,259,98							
Year Open: 19	60	1	998 Waste-ir	ı-Place (ton.	s):	7,259,985			
_	1987								
]	B. LANDFILL GAS CO	LLECTION	1					
Estimated Methane Generation (n	nmscf/d):		1.72						
LFG Collection System Status:		Ope	erational						
Current LFG Collected (mmscf/d)):		1.3						
Collection and Treatment System	Required Under NSI	PS/EG:	No						
		C. LANDFILL GAS UT	ILIZATION	N					
Current Utilization:									
Utilization System Status:	Operational								
Utilization System Type:	Reciprocatir	ng Engine							
Utilization System Start Year	r: 1987								
Electric Utility Provider(s):									
Natural Gas Provider(s):									
Energy Purchaser(s):	Public Servi	ce Electric & Gas Co.							
G	FI			O.D.	D' (H D ' (/ D)	л. \			
Capacity:		ty Generation Project (M	w) (OR	Direct Use Project (mmBt	1/hr)			
Estimated Potential Capacity	v:		5			54			
Current Capacity:			2.4			27			
Planned Capacity:									
Utilities in County:	Atlantic City	Electric Company; Jerse	y Central Po	wer & Ligh	t Co.; Public Service Electric	& Gas Co			
	D. ENVII	RONMENTAL BENEFI	TS OF UTI	LIZATION	Ţ				
		Pot	ential		Current				
Methane Reduction (tons/yr):				9,972		5,011			
CO2 Equivalent of CH4 Reduction	n (tons/yr):			209,404		105,225			
Emissions Avoided by Fossil Fuel	Displacement:	Electricity Gene			Direct Use Pro				
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)			
	Coal:	42,621		269	30,028	273			
	Fuel Oil:	34,981		225	24,646	144			
	Natural Gas:	23,522		0	16,572	0			
		E. CONTACT INFOR	MATION	•		-			
	Landfill		WATION		Landfill Operator				
Contact Name:					1				
Mailing Address:									
Dla ara Namala ara									
Phone Number:			609-2	227-5477					
Fax Number:									
* Itallicized indicates values estim	ated by EPA.	Dec	ember 5, 199	98	State: NJ Pa	ige: 14			

^{*} Itallicized indicates values estimated by EPA.

			L & D	IE		Landfill C	ataaam	Current
		A. Gl	ENERAL LANDFIL		ΓΙΟΝ	Lanajiii Ci	alegory.	Current
Landfill Owner:		71. 01				(tons):		
Landfill Owner Type:	Private			Annual Acceptance Rate (tons): Year Annual Acceptance Rate Reported:				
Alternative Landfill Name:		ampton Power Pr	eduction Dlant	Design Capac				
	Mount	-	oduction Plant	Acres Curren		200		
City:		-		Acres Current Average Dep	-	ed (acres):		40
County: State:	Burling NJ	gion						
Year Open:	NJ 1970			1994 Waste-		•		3,290,000
•				1998 Waste-i	n-Piace (ton	(S):		3,290,000
Year Closed:	1986	H	B. LANDFILL GAS	COLLECTION	N			
Estimated Methane Generation	on (mmsc			1.26				
LFG Collection System Status		<i>j, a)</i> .		Operational				
Current LFG Collected (mms				1.7				
Collection and Treatment Sys		uired Under NSP	S/FG·	No				
Concetion and Treatment Sys	iciii Keq		C. LANDFILL GAS		N			
Current Utilization:								
Utilization System Status	s:	Operational						
Utilization System Type		Gas Turbine						
Utilization System Start		1990						
Electric Utility Provider(1770						
Natural Gas Provider(s):								
Energy Purchaser(s):		Iarcay Cantr	al Power & Light Co.					
Ellergy Furchaser(s).		Jersey Centr	ai Fowei & Light Co.					
Capacity:		Electricit	ty Generation Project	(MW)	OR	Direct Use Project (n	mBtu/hr)
Estimated Potential Cap	acity:			4				39
Current Capacity:				3.3				35
Planned Capacity:								
Utilities in County:		Atlantic City	Electric Company; Jo	ersey Central Po	ower & Ligh	nt Co.; Pemberton Electr	ric Dept; l	Public S
		D. ENVIR	CONMENTAL BENI	EFITS OF UT	ILIZATION	V		
				Potential		Cu	rrent	
Methane Reduction (tons/yr):					7,282			6,553
CO2 Equivalent of CH4 Redu	ction (to	ns/yr):			152,920			137,603
	E 1D:	1	El	d D i		D: II	D : .	
Emissions Avoided by Fossil I	ruei Disj	пасетепт:	CO2 (tons/yr)	eneration Proje SO2 (to		Direct Us		
			, ,			CO2 (tons/yr)	302	2 (tons/yr)
		Coal:	30,782	2	195	21,928		200
		Fuel Oil:	25,264	ļ.	163	17,998		105
	N	latural Gas:	16,988	3	0	12,102		0
			E. CONTACT INF	ORMATION				
		Landfill (Owner			Landfill Operator		
Contact Name:								
Mailing Address:								
Phone Number:								
Fax Number:								
* Itallicized indicates values e	stimated	by EPA.]	December 5, 19	98	State: NJ	Page:	15



			Monmouth	County Ll	F			Landfill Catego	orv: C	urrent
		A. G	ENERAL LANDFI	•		ON			J	. ===
Landfill Owner:				Annua	l Accenta	ance Rate ((tons):		471	1,695
Landfill Owner Type:	Public			Year Annual Acceptance Rate Reported:						1993
Alternative Landfill N	ame: Monmo	outh County Rec	lamation Center		Design Capacity (tons):					
City:	Tinton	-		_	-	Landfille	d (acres):			153
County:	Monmo	outh			Average Depth (feet):					100
State:	NJ			1994	Waste-in-	-Place (ton	s):		7,898	3,947
Year Open:	1976	1976 1998			Waste-in-	Place (tons	s):		10,696	5,842
Year Closed:	1998									
B. LANDFILL GAS COLLECTION										
Estimated Methane Ge	neration (mmsc	f/d):		3	3.15					
LFG Collection Syster	n Status:			Operatio	nal					
Current LFG Collected	l (mmscf/d):									
Collection and Treatm	ent System Requ				No					
			C. LANDFILL GAS	SUTILIZ	ZATION					
Current Utilization:										
Utilization Syster	n Status:	Operational								
Utilization Syster	n Type:	Gas Turbine								
Utilization Syster	n Start Year:	1997								
-	Electric Utility Provider(s):									
Natural Gas Provider(s):										
Energy Purchaser	(s):	Jersey Centr	al Power & Light Co).						
Capacity:		Electrici	ty Generation Projec	t (MW)	O	R	Direct Use	e Project (mmB	tu/hr)	
Estimated Potenti	al Capacity:]	10					99
Current Capacity:				10	0.0					
Planned Capacity	:									
Utilities in County:		Jersey Centr	al Power & Light Co	o.; Public S	Service E	lectric & C	Gas Co.			
		D. ENVIE	RONMENTAL BEN	NEFITS C	F UTIL	IZATION	1			
				Potential	1			Current		
 Methane Reduction (to	ons/vr):			1 010111101		18,235		Current		0
CO2 Equivalent of CH		ns/vr):				82,935				0
, , , , , , , , , , , , , , , , , , ,										
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity (Direct Use Project			
			CO2 (tons/yr	.) .	SO2 (ton	s/yr)	CO2	(tons/yr)	SO2 (ton	is/yr)
		Coal:	78,13	38		494		54,912		500
		Fuel Oil:	64,13	32		413		45,070		263
	N	atural Gas:	43,12	24		0		30,305		0
			E. CONTACT IN	FORMA	TION					
		Landfill	Owner				Landfill	Operator		
Contact Name:	Robert Collins	, County Admini	strator		John G	ray, Super	rintendent			
Mailing Address:	Hall of Record	S			6000 A	sbury Ave	enue			
	PO Box 1255					,				
Phone Number:	908-431-7384				908-92	2-8686				
Fax Number:										



			Ocean County L	F		Landfill Catego	orv: Current
		A. G	ENERAL LANDFILL IN				
Landfill Owner:	Ocean	County Landfill	Corn And	nual Acceptance	Rate (tons):		430,000
Landfill Owner Type:	Private	-	-	-	otance Rate Repor	ted:	1998
Alternative Landfill N				ign Capacity (to	_	tea.	19,000,000
City:		Manchester Acres Currently Landfilled (acres):					
County:	Ocean			erage Depth (fee			150
State:	NJ			ste-in-Place (tor			
Year Open:	1972			8 Waste-in-Plac			13,292,996
Year Closed:	2016			- ,, ,,,,,,,	().		,-,-,-,-
		I	B. LANDFILL GAS COLI	LECTION			
Estimated Methane Ge	eneration (mmsc	rf/d):		3.82			
LFG Collection System	-	<i>y, cc)</i> .	Opera				
Current LFG Collected			open.				
Collection and Treatm		uired Under NSF	PS/EG:	No			
	1		C. LANDFILL GAS UTIL	IZATION			
Current Utilization:							
Utilization System	n Status:	Operational					
Utilization System		Reciprocatin	g Engine				
Utilization System	• 1	1997	.5 25				
Electric Utility Pr		GPU Energy	r				
Natural Gas Prov		2,					
Energy Purchaser	* *	Jersey Centr	al Power and Light				
23		-	-				
Capacity:		Electrici	ty Generation Project (MW) OR	Direct Us	se Project (mmB	tu/hr)
Estimated Potent	ial Capacity:			12			119
Current Capacity	:			4.8			
Planned Capacity	:						
Utilities in County:		Atlantic City	Electric Company; Jersey	Central Power &	V Light Co∴Lava	llette Electric De	ent: Seaside
Cumues in County:		·	RONMENTAL BENEFITS		_		pe, seuside
		D. ENVIR			TION		
			Poten			Current	
Methane Reduction (to	- ·			22,0			0
CO2 Equivalent of CH	14 Reduction (to	ns/yr):		463,5	558		0
Emissions Avoided by	Fossil Fuel Dist	placement:	Electricity Genera	tion Project		Direct Use Pro	oject
	1		CO2 (tons/yr)	SO2 (tons/yr)) CO2	(tons/yr)	SO2 (tons/yr)
		Coal:	93,924	594		66,474	605
		Fuel Oil:	77,088	496	5	54,558	318
	λ	latural Gas:	51,835	(36,686	0
		diurai Gas.			,	30,000	0
		Landfill	E. CONTACT INFORM	IATION	Landfil	1 Operator	
C + +N		Landini	Jwner			1 Operator	
Contact Name:				Charles J.	Hesse III		
Mailing Address:	PO Box 207			PO Box 20)7		
Dhana N							
Phone Number:	732-787-0226			732-787-0	226		
Fax Number:							



		Sussex Count	y LF 1-E		Landfill Cat	egory: Candidate		
	A. G	ENERAL LANDFIL	L INFORMAT	TION				
Landfill Owner:	Sussex County Municip	oal Utilities Authorit	Annual Accep	otance Rate (tons):	84,044		
Landfill Owner Type:			Year Annual	Acceptance I	Rate Reported:	1993		
Alternative Landfill Name:			Design Capac	ity (tons):		18,596,281		
City:	Lafayette		Acres Current	d (acres):	10			
County:	Sussex	sex Average Depth (feet):						
State:	NJ	Waste-in-Place (tons):						
Year Open:	1987		1998 Waste-ir	n-Place (tons	s):	1,008,528		
Year Closed:	2002							
]	B. LANDFILL GAS	COLLECTION	N .				
Estimated Methane Generation	(mmscf/d):		0.68					
LFG Collection System Status:								
Current LFG Collected (mmscf/	/d):							
Collection and Treatment System			No					
		C. LANDFILL GAS	UTILIZATION	N				
Current Utilization:								
Utilization System Status:	Unknown							
Utilization System Type:	Unknown							
Utilization System Start Yo								
Electric Utility Provider(s)	:							
Natural Gas Provider(s):								
Energy Purchaser(s):								
Capacity:	Electrici	ty Generation Project	(MW)	OR	Direct Use Project (mn	nBtu/hr)		
Estimated Potential Capac	rity:		2			21		
Current Capacity:								
Planned Capacity:								
Utilities in County:	Atlantic City	Electric Company; Je	ersey Central Po	⊥ ower & Light	t Co.; Rockland Electric	Company; Suss		
	D. ENVII	RONMENTAL BENI	EFITS OF UTI	LIZATION				
			Potential		Curre	ent		
Methane Reduction (tons/yr):				3,908		0		
CO2 Equivalent of CH4 Reduct	ion (tons/yr):			82,068		0		
Emissions Avoided by Fossil Fu	uel Displacement:		eneration Proje		Direct Use	-		
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)		
	Coal:	16,575		105	11,769	107		
	Fuel Oil:	13,604		88	9,659	56		
	Natural Gas:	9,147	,	0	6,495	0		
		E. CONTACT INF		-		-		
	Landfill		ORMATION		Landfill Operator			
Contact Name: Peter Go	oodman		Peter	Goodman				
Mailing Address:				Box 900A				
Phone Number:			RT 9					
			201-5	579-6998				
Fax Number:								
* Itallicized indicates values esti	imated by EPA.	I	December 5, 199	98	State: NJ	Page: 18		

^{*} Itallicized indicates values estimated by EPA.

			m 1 El 4 ' E 'l	1.,		7	1011.0	C 1:1.4
		A C	Towanda Electric Facil ENERAL LANDFILL INFO		ION		Landfill Category:	Candidate
		A. G.	ENEKAL LANDFILL INFO	KWIAT	ION			
Landfill Owner:	Browni	ing Ferris Industr			tance Rate (
Landfill Owner Type:	Private					Rate Reported	i:	
Alternative Landfill Na	ame:		Design	n Capaci	ty (tons):			
City:			Acres	Currentl	y Landfilled	d (acres):		
County:			Avera	ge Depth	n (feet):			
State:	NJ		Waste	-in-Place	e (tons):			
Year Open:			1998	Waste-in	-Place (tons	s):		
Year Closed:								
		I	B. LANDFILL GAS COLLE	CTION				
Estimated Methane Ge	eneration (mmsc	f/d):						
LFG Collection System	-	,,, .	Plan	ned				
Current LFG Collected			Tiun	iica				
Collection and Treatme		uired Under NSF	PS/FG·	No				
Concetion and Treatm	ent System Requ		C. LANDFILL GAS UTILIZ		I			
			c. LANDFILL GAS CITLIZ	ATION				
Current Utilization:								
Utilization System		Planned						
Utilization System		Reciprocatin	g Engine					
Utilization System	n Start Year:	2000						
Electric Utility Pr	ovider(s):							
Natural Gas Provi	ider(s):							
Energy Purchaser	r(s):	City of Towa	anda Waste Water Treatment					
				_	_			
Capacity:		Electrici	ty Generation Project (MW))R	Direct Use	Project (mmBtu/h	r)
Estimated Potenti	ial Capacity:							
Current Capacity:	:							
Planned Capacity	:		2	2.8				
Utilities in County:								
		D. ENVIR	RONMENTAL BENEFITS (OF UTII	LIZATION	I		
			Potentia	.1			Current	
Methane Reduction (to	ne/vr):		1 otema				Current	
CO2 Equivalent of CH	-	nchr).						
CO2 Equivalent of CII	4 Keauciion (ioi	ns/y/).						
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Generatio	n Projec	rt .		Direct Use Projec	t
•	•			SO2 (tor		CO2 (to	-	02 (tons/yr)
		G 1	(,	(···· <i>y</i> /	(.	, ,	(** ****)
		Coal:						
		Fuel Oil:						
	λ	atural Gas:						
	1 V	aiurai Gas.						
			E. CONTACT INFORMA	TION				
		Landfill	Owner			Landfill C	Operator	
Contact Name:								
Mailing Address:								
ivianing Audiess.								
Phone Number:								
Fax Number:								

